J. Ross Publishing Author Proposal Questionnaire

Please answer the following questions and send your responses to me via email (geyeington@jrosspub.com). Please be as complete as possible in your responses. Our books are routinely made available through bookstores, wholesalers, libraries, and major e – tailers worldwide. The remaining potential buyers require a more targeted effort and we want your insights to add to our own. Thank you in advance for your submission.

1. List author names, address, phone, fax, email and place of employment.
    a. Editor/Author
    Dr. Carol Ann Woody, Center for Science in Public Participation (CSP2), 6601 Chevigny St. Anchorage, AK 99502; 907-242-3496, cwoody@csp2.org

2. List 1 – 3 proposed titles and subtitles for your book
    a. Bristol Bay, Alaska: Ecosystems and Natural Resources of Extraordinary Significance
    b. Alaska's Bristol Bay: a scientific synthesis of extraordinary natural resources

3. Provide a brief description or summary of your book that might be used in promoting your book (50 – 100 words).
    Bristol Bay, Alaska, contains an extraordinary array of globally significant resources - from the world's most valuable wild salmon fishery to one of the world's largest untapped copper deposits. Historically, the region's economies and cultures are founded on its unparalleled biological resources. Bristol Bay's biological productivity is primarily due to tens of millions of wild Pacific salmon that faithfully return to spawn each year in the region's abundant freshwater habitats, delivering billions of tons of nutrients that fuel productivity in freshwater, terrestrial, and marine ecosystems. Increasingly, attention is focused on the region's rich non-biological resources - mineral, oil and gas deposits with genesis in powerful tectonic forces and attendant volcanism. Here we offer the first scientific synthesis highlighting Bristol Bay's globally significant resources, with chapters crafted by experts on topics ranging from macroinvertebrates to minerals.

4. List and describe five or more key features/benefits that will attract or meet the needs of the targeted end users (i.e. why would someone buy this book?).
    - There is no historic or contemporary, comprehensive, science-based reference on Bristol Bay's globally important biological and non-biological resources.
    - The region is a biological hotspot of the world and the science of species use in the region is of interest to regional, state, national and international communities of resource managers, policy makers, stakeholders, scientists, as well as the general public. Its waters are habitat for globally important fisheries including salmon, red king crab, Pacific cod, halibut and pollock. Seals, whales, walrus, and other marine mammals occur here and millions of migratory birds rely on Bristol Bay for feeding, breeding and rest stops. Its terrestrial systems host world-class mammal and avian resources. The lands, waters, species diversity and abundance annually attract tens of thousands of visitors from across the globe.
    - There is increasing tension regarding development of the region's non-biological resources and potential impacts to its biological resources. These tensions consistently thrust debate on these issues into the international spotlight (e.g., Pebble Mine, off-shore oil and gas exploration). A reliable scientific reference would aid policy makers,

resource managers and decision makers, scientists, stakeholders, and the public in discussion, debate and decisions.

5. Author Bio: What makes you an expert on this topic?
I am intimately familiar with the region's people and resources from conducting scientific research on freshwater resources and recreating there since 1991. My professional experience there includes assisting with and leading original research on salmon ecosystems and subsistence fish species with federal, state, Native, University and non-profit entities; leading the USGS Technical Review Team on the Pebble Mineral Development Project, and conducting educational outreach in every Bristol Bay village and town. Currently, I work for a non-profit that provides technical support to communities affected by mining (CSP2). I collaborate with ecologists, mining engineers, hydrologists, geochemists and others in assessing risks to the region's aquatic ecosystems from various mine proposals; additionally I am collaboratively designing a long-term, interdisciplinary monitoring plan for the region's wadeable streams. Education: B.S. Utah State Univ. in Wildlife and Fisheries Management, M.S. University of Wisconsin in Aquatic Ecology, Ph.D. Fisheries Science Univ. Washington. I have published 25+ peer-reviewed publications, a book and book chapter s: http://www.fish4thefuture.com/pubs.html. I successfully mentored 4 graduate students through their degrees and have served as affiliate faculty at the University of Alaska, University of Montana and University of Idaho.

6. Provide planned number of 81/2 x 11 double spaced manuscript (not final printed) pages excluding tables, line drawings and illustrations. I estimate a total of ~23 chapters, each averaging approximately 20-30 pages w/o references, figures or tables.

7. Provide planned number of tables, illustrations and drawings. TBD.

8. Provide manuscript estimated completion and delivery date.
Chapter drafts will be due 1 Feb. 2014.

9. Provide a tentative table of contents or outline for your book. If available, supply a planned summary of content by chapter.

SECTION ONE TERRESTRIAL

Chapter 1. Ecoregions of Bristol Bay: Author: TBA (potentially Amy Miller, NPS SWAN, or EPA) http://www.epa.gov/wed/pages/ecoregions/ak_eco.htm Ecoregion boundaries were determined by examining patterns of vegetation, animal life, geology, soils, water quality, climate, and human land use, as well as other living and non-living ecosystem components.

Chapter 2. Plant Communities and Rare Plants of Bristol Bay- Dr. Matt Carlson and Keith Boggs Alaska Natural Heritage Program.

Chapter 3. Wildlife Resources of Bristol Bay – Phillip Brna and Lori Verbrugge USFWS

This chapter will provide a summary of information on brown bear, moose, caribou, wolf, waterfowl, bald eagle, shorebirds and landbirds in the Bristol Bay region with a focus on the Nushagak and Kvichak watersheds.

Chapter 4. The Alaska Peninsula and Lowland Resources- Troy Hammond/ Ron Britton? TBD.

Chapter 5. People and Cultures of Bristol Bay- Dr. Alan Boraas and Dr. Catherine Knott. This chapter will provide a summary of the salmon based culture of First Alaskan's of the region , the Yup'ik and Dena'ina of Bristol Bay.

Chapter 6. Parks and Refuges of Bristol Bay-brief descriptions of each park and refuge, reasons for its designation, and highlights of exceptional resources will be prepared by experts from each park or refuge. A fold out map will orient readers to the location, size and highlight regions in each protected area.
Lake Clark National Park and Preserve - TBD
Katmai National Park- Dr. Troy Hammond (TBD)
Togiak National Wildlife Refuge- Pat Walsh (Supervisory Biologist)/ Mark Lisac / Tevis Underwood (Dep. Manager)
Izembek National Wildlife Refuge – Chris Dau (former Sup. Biologist, now in Regional Office, MBM)
Wood Tikchik State Park - TBD
Alaska Peninsula NWR / Becharof NWR – Ron Britton (TBD)
(For refuges, see if recent Comprehensive Conservation Plan or Inventory & Monitoring Plan)

SECTION TWO MARINE

Chapter 7. Estuarine Benthic Resources. Dr. Todd Radenbaugh Univ. Alaska. This chapter will focus on recent research and findings regarding benthic ecology and species diversity of Nushagak Bay.

Chapter 8. Bristol Bay Marine Estuarine Processes and Nutrient flow. Doug Limpinsel, NOAA National Marine Fisheries Service, Alaska Region and coauthors. This chapter will summarize what is known about Bristol Bay estuarine ecology.

Chapter 9. Shellfish Resources – Dr. **Stew Grant, ADF&G.** Life history and genetics of Bristol Bay shellfish.

Chapter 10. Salmon Resources and Fisheries. Dr. Dan Rinella and Rebecca Shaftel University of Alaska; Dave Athons EPA Alaska. Here we review biology, ecology, and management of Bristol Bay salmon. Our objectives were to describe the commercial and sport fishery salmon resources and to discuss the importance of Bristol Bay salmon populations in the context of the greater North Pacific Ocean.

Chapter 11. Seabirds of Bristol Bay. Audubon Alaska- Dr. Nils Warnock and Melanie Smith. Bristol Bay is home to dozens of globally-significant Important Bird Areas and one of the world's greatest concentrations of seabird colonies. It is an avian crossroads; four migratory flyways overlap there, with birds from Africa, Asia, the Central Pacific, and the Americas all migrating to and from the region, seeking out its diverse habitats and rich resources. Arguably, nowhere else on Earth is so important to so many birds from so many different continents.

Chapter 12. Marine Mammals of Bristol Bay. Life history, ecology, and harvest. Author: TBD – Marine Mammals group of LCC Science Workshop report (Lori Polasek)

This chapter will summarize the life history, ecology and known science on marine mammal species that frequent Bristol Bay including seals, whales, and walrus.

SECTION THREE FRESHWATERS

Chapter 13. Geomorphology- Geology/hydrology/water chemisty TBD

Chapter 14. Invertebrate and diatom communities of the Nushagak and Kvichak River watersheds. Dr.Dan Rinella & Dan Bogan ENRI

Chapter 15. Headwater fish communities in the Nushagak and Kvichak River watersheds. Woody

Chapter 16. Freshwater Fish Resources of Bristol Bay. TBD

Chapter 17. Sockeye Salmon Freshwater Habitats and Links to Biodiveristy/Sustainability. UW. Dan Schindler, Tom Quinn, Ray Hilborn.

Chapter 18. Freshwater Harbor Seals of Iliamna Lake. Dr. J. Burns

Chapter 19. Terrestrial – Freshwater Linkages, Dr. Mark Wipfli, UAF

SECTION FOUR NON-BIOLOGICAL RESOURCES

Chapter 20. Oil and gas reserves in the North Aleutian Basin – TBD

Chapter 21. Mineral Resources of Bristol Bay- Overview of mineral resources in the Bristol Bay region. BBNC. TBD

Chapter 22. Geologic and Environmental Characteristics of Porphyry Copper Deposits with Emphasis on Potential Future Development in the Bristol Bay Watershed; Author: Dr. Robert Seal, II U.S. Geological Survey, Reston VA. 9 Tables; 8 Figures; 30 pages. The Pebble deposit in the Bristol Bay watershed, southwestern Alaska, shares many geologic attributes with typical porphyry copper deposits throughout the world. These features include: (1) its spatial association with coeval granitic intrusions; (2) its large tonnage of ore and its low grade, although the size of Pebble places it in the upper 5 percent of porphyry copper deposits globally; (3) the association of copper, molybdenum, and gold; (4) the style of mineralization as veinlets, stockworks, and disseminations with igneous and sedimentary host rocks; and (5) its zoned ore-mineral and alteration assemblages.

Chapter 23. Renewable Energy Resources – wind, geothermal, tidal, hydro… Author TBD
Contact for suggestions: Emily Binnian (Ak. Energy Authority)? Jennifer Spegon (FWS, Ecological Services – perhaps works w/ Brna); Chris Rose – REAP?